

ABSTRACT

This invention provides the electromagnetic waves shield material that has a sufficient effect of shielding the electromagnetic waves by making the electric conductive fibers into mesh. And this invention also provides the electromagnetic waves shield mobile phone case that avoids a harmful effect on the human body without reducing the function of communication of the mobile phone used the said electromagnetic waves shield material.

The fibers with electric conductivity are woven into mesh by a general knitting machine like a machine for tricot. The cost is low even used for the wide area to shield the electromagnetic waves because the consumption of the fibers needed is less. The coarseness of the net is maintained the same by controlling the movement of the length and breadth each other.

To avoid the radiation to the head direction, the electromagnetic waves shield material is used for the front and upper sides of the mobile phone case which are the direction to the head when the mobile phone is in use. The regular material without electromagnetic waves shield effect is used for the both sides of the mobile phone case.

The antenna cap with electromagnetic shield structure is attached to the said upper side of the electromagnetic wave shield case. The electricity with high frequency is conducted between the above antenna cap and the upper side of the electromagnetic wave shield case. The said antenna cap is a conic tube cut it's head obliquely. The opening part is made to face in the opposite side of the head when it is attached to the antenna. A metallic pin is attached to the outside of the antenna cap. This metallic pin conducts high frequent electricity with the wire antenna at the mobile phone body when it is attached. It functions as an additional antenna to the wire antenna at the mobile phone body.